

Rec'd PCT/PTO

20 SEP 2005

10/525781

Express Mail Label No. EV727808413US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Caires et al.

Application No.: 10/525,781

Filed: February 28, 2005

For: CYCLIC PALLADIUM COMPOUNDS
HAVING COORDINATED THERETO BIS
(DIPHENYLPHOSPHINE) FERROCENE
LIGANDS WHICH INHIBIT THE ACTIVITY
OF PROTEINS AND ENZYMES AND
TREATMENT OF DISEASES AND
DISORDERS ASSOCIATED THEREWITH

Our File: APA-PT005

Date: September 20, 2005

Group: Not Yet Known

Examiner: Not Yet Known

INFORMATION DISCLOSURE STATEMENT

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56,
Applicants wish to bring to the Examiner's attention the material cited on the enclosed
PTO-1449 form.

Pursuant to 37 C.F.R. §1.98(a)(2)(ii), copies of the cited U.S. publications and/or patent documents have not been included. Copies of all other cited documents are enclosed.

Reference AL is submitted in the German language. The relevancy of the reference is set forth in the enclosed International Search Report of the corresponding International Application as a category "X", document of particular relevance.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Cairnes et al.

By 
Robert J. Ballarini
Registration No. 48,684
(215) 568-6400

Volpe and Koenig, P.C.
United Plaza, Suite 1600
30 South 17th Street
Philadelphia, PA 19103

RJB/pp
Enclosures (17)

FORM P-449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. APA-PT005		SERIAL NO. 10/525,781	
				APPLICANT Caires et al.			
				FILING DATE February 28, 2005		GROUP Not Yet Known	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		5,880,149	03/1999	Grinstaff et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AB	ARES, RAQUEL, et al., "Functionalized cyclopalladated compounds with bidentate Group 15 donor atom ligands: the crystal and molecular structures of $[(\text{Pd}\{5-(\text{COH})\text{C}_6\text{H}_3\text{C}(\text{H})=\text{NCy}-\text{C}_2\text{N}\})(\text{C}_1)_2(\mu-\text{Ph}_2\text{PRPPH}_2)]$ ($\text{R} = \text{CH}_2\text{CH}_2$, $\text{Fe}(\text{C}_5\text{H}_4)_2$), $[\text{Pd}\{5-(\text{COH})\text{C}_6\text{H}_3\text{C}(\text{H})=\text{NCy}-\text{C}_2\text{N}\}(\text{Ph}_2\text{PCH}_2\text{PPh}_2-\text{P},\text{P})][\text{PF}_6]$ and $[\text{Pd}\{5-(\text{COH})\text{C}_6\text{H}_3\text{C}(\text{H})=\text{N}(\text{Cy})-\text{C}_2\text{N}\}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{AsPh}-\text{P},\text{As})][\text{PF}_6]$ ", JOURNAL OF ORGANOMETALLIC CHEMISTRY, 665(1-2):76-86 (2003)					
	AC	ARES, RAQUEL, et al., "Cyclopalladated compounds with bridging and chelating diphosphine ligands Effect of ring size. Crystal and molecular structure of $[(\text{Pd}\{4-(\text{COH})\text{C}_6\text{H}_3\text{C}(\text{H})=\text{N}(\text{Cy})-\text{C}_2\text{N}\})(\text{C}_1)_2(\mu-\text{Ph}_2\text{PCH}_2\text{PPh}_2)]$ " POLYHEDRON, 21(22):2309-2315 (2002)					
	AD	FERNANDEZ, ALBERTO, et al., "The first crystal and molecular structure of a syn-acetato-bridged dinuclear cyclometallated complex $[\text{Pd}\{2,3,4-(\text{MeO})_3\text{C}_6\text{H}_3\text{C}(\text{H})=\text{NCH}_2\text{CH}_2\text{OH}\}-(\mu-\text{OAc})_2]$ ", EUR. J. INORG. CHEM., 9: 2389-2401 (9/2002)					
	AE	FERNANDEZ, ALBERTO, et al., "Cyclopalladated compounds derived from a $[\text{C},\text{N},\text{S}]$ terdentate ligand: synthesis, characterization and reactivity. Crystal and molecular structures of $[\text{Pd}\{2-\text{ClC}_6\text{H}_3\text{C}(\text{H})=\text{NCH}_2\text{CH}_2\text{SMe}\}(\text{C}_1)]$ and $[\text{Pd}\{2-\text{C}_1\text{C}_6\text{H}_3\text{C}(\text{H})=\text{NCH}_2\text{CH}_2\text{SMe}\}]_2\{\mu-\text{Ph}_2\text{P}(\text{CH}_2)_4\text{PPh}_2\}-\text{CF}_3\text{SO}_3]_2$ " NEW J. CHEM., 26(1):105-112 (1/2002)					
	AF	VILA, JOSE M., et al., "Novel cyclopalladated ferrocenyl Schiff base compounds with bridging and chelating diphosphines. Crystal and molecular structure of $[(\text{Pd}\{(\eta^5-\text{C}_5\text{H}_5)\text{Fe}(\eta^5-\text{C}_5\text{H}_3)\text{C}(\text{H})=\text{N}-2,4,6-\text{Me}_3\text{C}_6\text{H}_2\}-\text{Ph}_2\text{P}(\text{CH}_2)_n\text{PPh}_2-\text{P},\text{P})][\text{PF}_6]$ ($n = 1, 2$)", JOURNAL OF ORGANOMETALLIC CHEMISTRY, (637-639): 577-585 (12/2001)					
	AH	CASTRO-JUIZ, SAMUEL, et al., "Directed regioselectivity in cyclometallated palladium(II) compounds of N-benzyl-1-denebenzylamines. Crystal and molecular structure of $[\text{Pd}\{3,4-(\text{OCH}_2\text{O})\text{C}_6\text{H}_2\text{C}(\text{H})=\text{NCH}_2-[3,4-(\text{OCH}_2\text{O})\text{C}_6\text{H}_3]-\text{C}_2\text{N}\}(\mu-\text{O}_2\text{CMe})_2]$ ", POLYHEDRON, 20:2925-2933 (2001)					
	AI	ANANIAS, SANDRA R., et al., "Cleavage of the dimeric cyclopalladated $\text{IPd}(\text{N},\text{C}-\text{dmba})(\mu.-\text{X})\text{I}_2$, ($\text{dmba} = \text{N},\text{N}$ -dimethylbenzylamine; $\text{X} = \text{SCN}$ and NCO) by diphosphines. Palladium(II) compounds with distinct structures in the solid-state and in solution", TRANSITION METAL CHEMISTRY, 26(4-5): 570-573 (Dordrecht, Netherlands: 2001)					

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. APA-PT005	SERIAL NO. 10/525,781
		APPLICANT Caires et al.	
		FILING DATE February 28, 2005	GROUP Not Yet Known
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AJ	LOUSAME, MARIELA, et al., "Synthesis and single-crystal X-ray diffraction studies of new cyclometallated phenylimidazole palladium (II) compounds", EUR. J. INORGA. CHEM., 9:2055-2062 (9/2000)	
	AK	MA, JIAN-FANG, et al., "Reaction of <u>di-μ</u> -dichloro-bis(N,N-dimethylbenzylamine- C ² ,N)dipalladium(II) with diphosphines. Six-membered ring complexes bearing spiro rings", INORGANICA CHIMICA ACTA, 299(2): 164-171 (3/2000)	
	AL	BOEHM, ANDREAS, et al., "Metal complexes of biologically important ligands. Part 104. Ortho-palladated complexes of N,N-dimethyl(phenyl)glycine methyl ester. Synthesis of.alpha.-amino acid derivatives by insertion of isocyanides, CO, alkenes, and alkynes into the Pd-C bond", ZEITSCHRIFT FUER NATURFORSCHUNG, B CHEMICAL SCIENCES, 53(4):448-458 (1998)	
	AM	ZHAO, GANG, et al., "Optically active cyclopalladated derivatives of arylimines. Crystal structures of (+)-[Pd(p-MeOC ₆ H ₃ CH=NCH ₂ -(1S,2R,5S)-CHCH ₂ CH ₂ CHC(Me) ₂ CHCH ₂)(μ-X) ₂ (X = Cl or Br), (+)-[Pd(p-MeOC ₆ H ₃ CH=NCH ₂ -(1S,2R,5S)-CHCH ₂ CH ₂ CHC(Me) ₂ CHCH ₂ Cl)(PPh ₃)] and (+)-[Pd(p-MeOC ₆ H ₃ CH=NCH ₂ -(1S,2R,5S)-CHCH ₂ CH ₂ CHC(Me) ₂ CHCH ₂ Cl) ₂][Fe(η ⁵ H ₄ PPh ₂) ₂]", J. CHEM. SOC., DALTON TRANSACTIONS: INORGANIC CHEMISTRY, 7:1241-1247 (1998)	
	AN	ZHAO, GANG, et al., "DiastereoselectiveCyclopalladation of New Chiral Ferrocenylimines (-)-{(η ⁵ -C ₅ H ₅)Fe(η ⁵ -C ₅ H ₄ C(R)=NCH ₂ -(1S,2R,5S)-CHCH ₂ CH ₂ CHC(CH ₃) ₂ CHCH ₂ }}. Crystal Structures of (Sp)-[Pd{(η ⁵ -C ₅ H ₃ C(R)=NCH ₂ -(1S,2R,5S)-CHCH ₂ CH ₂ CHC(CH ₃) ₂ CHCH ₂)Fe(η ⁵ -C ₅ H ₅)}(PPh ₃)C1] (R = H or Me)", ORGANOMETALLICS 16(18): 4023-4026 (1997)	
	AO	QUIROGA, A. G., et al., "Novel tetranuclear orthometalated complexes of Pd(II) and Pt(II) derived from p-iospropylbenzaldehyde thiosemicarbazone with cytostatic activity in cis-DDP resistant tumor line cells. Interaction of these complexes with DNA", J. MED. CHEM., 41(9): 1399-1408 (4/1998)	
	AP	NAVARRO-RANNINGER, CARMEN, et al., "Cyclometalated complexes of platinum and palladium with N-(4-chlorophenyl)-alpha-benzoylbenzylidenamine. <i>In vitro</i> cytostatic activity, DNA modification and interstrand cross-link studies", INORG. CHEM. 35(18): 5181-5187 (8/1996)	
	AQ	NAVARRO-RANNINGER, C., et al., "Analysis of two cycloplatinated compounds derived from N-(4-methoxyphenyl)-alpha-benzoylbenzylidenamide: Comparison of the activity of these compounds with other isostructural cyclopalladated compounds", J. MED. CHEM. 36(24): 3795-3801 (11/1993)	

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.